

Amendments to the Specification:

Please replace paragraph [0037] at page 9 of the application with the following:

[0037] Figure 2 shows a single-cell multi-user MC-CDMA system according to the invention. On the left, data streams 111-1 through 111-m and modulator 120 perform the function of Figure 1 up to line 55. Box 155 represents the effects of the channel and demodulator 160 and detector generate a set of received data ~~120-1 through 120-m~~ 170-1 through 170-m corresponding to the transmitted data on the left.

Please also replace the abstract, paragraph [0125] at page 34, with the following:

[0125] In a multi-user frequency domain spreading downlink MC-CDMA ~~system~~, a group of sub-carriers can be replaced by an equivalent sub-carrier of a conventional OFDM modem for purposes of resource allocation to improve the system performance. The chips for a given user are spread only within the group. Confinement insures synchronization between different users' chips that is essential to the recovering and separation of user symbols at the receiver. There is no limit imposed on the group size, which permits different spreading code lengths to be used for different scenarios or for performance tuning.

[0126]